

Appendix 2

WSP Practice Standard Criteria Reference Tools

Table outline for – NRCS Practice Standard Criteria Revisions

Waste Storage Pond, PS-425

Dated: 1979-1994

Waste Storage Facility, PS-313 (Includes Pond Criteria)

Dated 2000- Current

313 PRACTICE STANDARD PERFORMANCE MEASURE CHECKLIST

Washington State NRCS REVISION Dates:

- April 1979
- February 1987
- January 1994
- February 2000
- June 2001
- December 2004

Common pond construction dimension criteria for all WSP practices and all revisions: April 1979 to December 2004		
Minimum Top Width	Inside and Outside Slopes	Side Slopes Combined
8 ft	No steeper than 2 H to 1 V	5 H to 1 V or Flatter

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5/2011

Page 27 of 29

Revised Practice Standard Adoption Dates	Design Criteria Revised		
	Separation Distance in Feet From - -	Seasonal High Groundwater Table: Separation Distance From Pond Bottom	Liner Criteria: Soil type, Compaction, Permeability
1979, April PS- 425	Not specified	Do not construct to an elevation below the SHGWT unless considered a special design	Soils of slow to moderate permeability. Avoid gravel and shallow soils. If self-sealing is not probable, the storage pond shall be sealed by mechanical treatment or by the use of an impermeable membrane.
1987, February PS-425	300 ft from a neighboring residence, 200 ft from domestic well in an unconfined aquifer and 25 ft from water courses. All measured from outside toe of fill or top edge of pit pond	The operation and maintenance plan shall specify that the liquid level in the pond be maintained at least 6-in. above the ground water	No liner required for dense glacial till soils. GM, SM and ML materials may be used for a 12-in compact liner GC and SC materials may be used for a 9-in compacted liner CL and CH materials may be used for a 6-in compacted liner
1994, January PS-425	300 ft from any existing water wells unless aquifer evaluated for reduced distance	Do not construct below the SHGWT and shall have a properly designed and installed liner	1-ft minimum thickness, compacted soil liner of acceptable USCS soil material identified and listed as: CH, CL, MH, ML, and SM, SC, GM, GC if they contain more than 20% fines (passing #200 sieve)
2000, February PS-313	300 ft from any existing water wells unless aquifer evaluated for reduced distance	Pond bottom elevation shall be a minimum of 2 ft above SHGWT. Depth to SHGWT shall be determined from soil features with the assistance of a soil scientist or from monitoring wells.	1-ft minimum thickness, compacted soil liner of acceptable USCS soil material identified and listed as: CH, CL, MH, ML, and SM, SC, GM, GC if they contain more than 20% fines (passing #200 sieve)
2001, June PS-313	300 ft from any existing water wells for storage pond unless aquifer evaluated for reduced distance.	Pond Bottom, Minimum 2 ft above SHGWT. SHGWT may be lowered by perimeter drains if feasible. Engineering Tech Note #7 (formerly agronomy Tech Note #42) shall be used to identify soil features for establishing the SHGWT.	Foundation permeability cannot exceed 1×10^{-6} cm/s or it must be lined. All soil liners shall have a minimum compacted thickness of 1-ft. Compacted soil liner permeability must be equal to or less than 1×10^{-6} cm/s.
2004, December PS-313	100 ft from any existing water wells. Aquifer evaluation required for variance but, must meet state and local regulations.	Pond Bottom, Minimum 2 ft above SHGWT. SHGWT may be lowered by perimeter drains if feasible and buoyant forces are considered.	1-ft minimum thickness of compacted soil liner. Permeability not to exceed 1×10^{-6} cm/s